# http://www.ric.edu/webcommunications/images/SealWithText_Small_Black.pnggraduate COMMITTEE curriculum PROPOSAL FORM

## Cover page Scroll over blue text to see further [instructions](#instructions)

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| --- | --- | --- |
| A.1. [Course or program](#Proposal) | **MGT 545 Production and inventory Management** |  |
| [Replacing](#Ifapplicable)  |  |  |
| A.2. [Proposal type](#type) | **Course: creation**  |  |
| A.3. [Originator](#Originator) | **Paul Jacques** | [Home department](#home_dept) | **Management and Marketing** |
| A.4. [Rationale](#Rationale)/Context | **This course develops knowledge of production planning systems, master production scheduling, aggregate planning, inventory planning, and production control****This new course represents new learning opportunities for students and would give the student taking the course tools enabling the student to more effectively address comprehensive design and execution issues related to long-range organizational capabilities in effectively and efficiently anticipating and responding to customer demand.** |
| A.5. [Student impact](#student_impact) | **There is no negative student impact. The course broadens the options that students have to choose from in the pursuit of the MS Operations Management degree.** |
| A.6. Impact on other programs |  |
| A.7. [Resource impact](#Resource) | *[Faculty PT & FT](#faculty" \o "Need to hire new full-time or part-time faculty? This is where you indicate if this proposal will be affecting FLH in your department/program.)*:  | **Two new full-time faculty members would be needed in the Fall of 2018 to support this proposal and the package of related proposals. One faculty member would be a Ph.D. while the other would be an Executive in Residence, professionally qualified.**  |
|  | [*Library*:](#library) | **no impact**    |
|  | [*Technology*](#technology) | **no impact**    |
|  | [*Facilities*](#facilities): | **Classroom in the evening will be needed.** |
|  | Promotion/ Marketing needs  | **None…part of overall MS Operations Management promotion package.** |
| A.8. [Semester effective](#Semester_effective) | **Fall, 2018** | A.9. Rationale if sooner than next fall |  |

B. [NEW OR REVISED COURSES](#delete_if):

|  | Old ([for revisions only](#Revisions) – list only information that is being revised) | New |
| --- | --- | --- |
| B.1. [Course prefix and number](#cours_title)  |  | **MGT 545** |
| B.2. Cross listing number if any |  |  |
| B.3. [Course title](#title)  |  | **Production and Inventory Management** |
| B.4. [Course description](#description)  |  | **Students learn the design and management of manufacturing, service, and distribution processes, including the interrelationship of demand, planning, and an introduction to the transportation of goods.** |
| B.5. [Prerequisite(s)](#prereqs) |  | **Graduate status, MGT536**  |
| B.6. [Offered](#Offered) |  | **Annually** |
| B.7. [Contact hours](#contacthours)  |  | **4** |
| B.8. [Credit hours](#credits) |  | **4** |
| B.9. [Justify differences if any](#differences) |  |
| B.10. [Grading system](#grading)  |  | **Letter grade**  |
| B.11. [Instructional methods](#instr_methods) |  | **Laboratory | Lecture | Practicum | Small group | Individual |**  |
| B.12.[Categories](#required) |  | **Major/Program free elective, Required for CGS in Supply Chain Management** |
| B.13. [How will student performance be evaluated?](#performance) |  | **Class participation | Exams | Presentations | Papers |** **Class Work | Interviews | Quizzes |****Projects |**  |
| B.14. [Redundancy with, existing courses](#competing) |  | **n/a** |
| B. 15. Other changes, if any |  |

| B.16**.** [**Course learning outcomes**](#outcomes)**: List each outcome in a separate row** | [**Professional organization standard(s)**](#standards)**, if relevant**  | [**How will the outcome be measured?**](#measured) |
| --- | --- | --- |
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| A. Develop and perform structured problem solving techniques and be able to utilize principles of consensus in the decision making process.B. Demonstrate and perform supervisory tasks required of personnel in manufacturing industries for maximizing production efficiencies regarding time, materials, machine, and human resources availability.C. Develop and demonstrate a work ethic consistent with industrial management practices and procedures.D. Recognize, understand, and utilize human resource management skills such as communication, motivation, team work, cooperation, and the like.E. Assess and develop production strategy based on the manufacturing process.F. Explain the importance of proper utilization of new technology to increase productivity. | Collectively, the course learning objectives reflect the guidelines established by following professional organizations and are embedded in the suggested course text:* The Certified Supply Chain Professional (CSCP) and Certificate in Production and Inventory Management (CPIM) offered by The Association for Operations Management (APICS);
* The Certified Professional in Supply Management (CPSM) from the Institute for Supply Management (ISM); and
* The SCPro™ from the Council of Supply Chain Management Professionals (CSCMP).
 | Student achievement of the targeted course learning outcomes will be measured via performance on tests, quizzes and assignments that specifically relate to the course learning objectives as addressed in the suggested course texts. |
|  |  | Click Tab from here to add rows |

| B.17. [**Topical outline**](#outline)**: Do NOT insert a full syllabus, only the topical outline** |
| --- |
| 1. Scope of Materials Management
	* 1. Operating Environment
		2. Supply Chain concepts
2. Production Planning Systems
	* 1. Manufacturing Planning and Control systems
		2. Sales and Operations Planning
		3. Production Planning models
3. Master Scheduling
	* 1. Scheduling and the Production Plan
		2. Developing a Master Production Schedule (MPS)
		3. Relationship of Production, Master Scheduling, forecasting and sales
4. Materials Requirements Planning
	* 1. Bills of materials
		2. Materials Requirements Planning Processes
		3. Leveraging and Implementing the Materials Requirements plan
5. Production Control
	* 1. Order preparation
		2. Scheduling
		3. Production control in service operations
6. Inventory Fundamentals
	* 1. Aggregate inventory management
		2. Inventory management objectives
		3. Inventory, costs and impact on financial statements
7. Order Quantities
	* 1. Economic order quantity models
		2. Quantity discounting
		3. Ordering in the face of uncertainty
8. Physical Inventory and Warehouse Management Models
	* 1. Warehouse management concepts
		2. Inventory records management
		3. Technology and inventory management
		4. Transportation processes
9. Product and Process Design and Development
	* 1. Product development principles
		2. Process selection
		3. Continuous process improvement
10. Total Quality Management
	* 1. Total Quality Management as an overarching philosophy
		2. Total Quality Management – a systems view
		3. Quality Costs
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| **INSTRUCTIONS FOR PREPARING THE CATALOG COPY**: The proposal must include all relevant pages from the college catalog, and must show how the catalog will be revised. (1) Go to the “Forms and Information” page on the Graduate Committee website. Scroll down until you see the Word files for the current catalog. (2) Download ALL catalog sections relevant for this proposal, including course descriptions and/or other affected programs. (3) Place ALL relevant catalog copy into a single file. Put page breaks between sections and delete any catalog pages not relevant for this proposal. (4) Using the track changes function, revise the catalog pages to demonstrate what the information should look like in next year’s catalog. (5) Check the revised catalog pages against the proposal form, especially making sure that program totals are correct if adding/deleting course credits.  |

## D. Signatures

* Changes that directly impact more than one department/program MUST have the signatures of all relevant department chairs, program directors, and relevant dean (e.g. when creating/revising a program using courses from other departments/programs).
* Proposals that do not have appropriate approval signatures will not be considered.
* Type in name of person signing and their position/affiliation.
* Send electronic files of this proposal and accompanying catalog copy to graduatecommittee@ric.edu and a printed or electronic signature copy of this form to the current Chair of Graduate Committee. Check Graduate Committee website for due dates.

##### D.1. Approvals: required from programs/departments/deans who originate the proposal. may include multiple departments, e.g., for joint/interdisciplinary prposals.

| Name | Position/affiliation | [Signature](#_Signature" \o "Insert electronic signature, if available, in this column) | Date |
| --- | --- | --- | --- |
| Paul Jacques | Director, MS Operations Management Program |  |  |
| Mike Casey | Chair of Management and Marketing |  |  |
| Jeffrey Mello | Dean of the School of Business |  |  |

##### D.2. [Acknowledgements](#acknowledge): REQUIRED from OTHER PROGRAMS/DEPARTMENTS IMPACTED BY THE PROPOSAL. SIGNATURE DOES NOT INDICATE APPROVAL, ONLY AWARENESS THAT THE PROPOSAL IS BEING SUBMITTED. List all other programs and departments affected by this proposal. Signatures from these departments are required in the signature section. CONCERNS SHOULD BE BROUGHT TO THE GRADUATE COMMITTEE MEETING FOR DISCUSSION.

| Name | Position/affiliation | [Signature](#Signature_2) | Date |
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